

**TECHNICAL NOTE**

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Bureau of Land Management U.S. DEPARTMENT OF THE INTERIOR

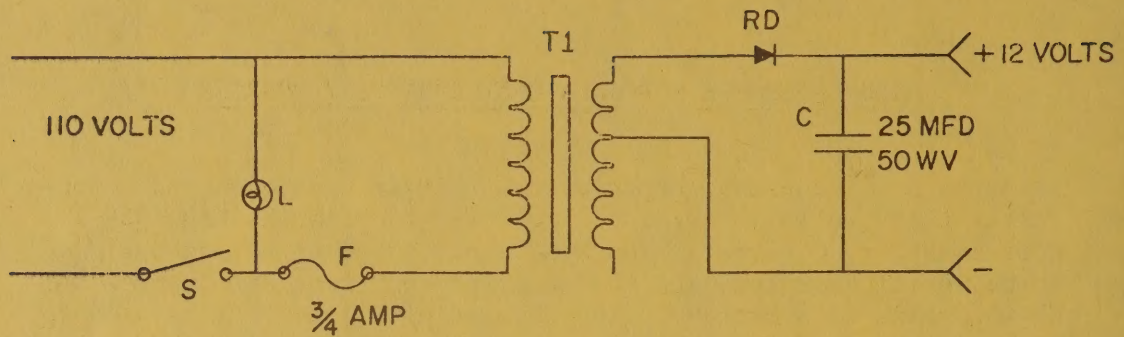
CONVERTER FOR MOTOROLA MOBILE BATTERY CHARGER

The Branch of Cadastral Experimental Systems has developed a converter (110V to 12V) for providing power to Motorola NLN 6354 A Mobile Battery Chargers. The Mobile Battery Charger was designed to be vehicle mounted, and to act as a mount for, and charges a HT-200 radio with battery. The charger with converter is used to charge nickel-cadmium (NICAD) batteries on field trips when only 2 or 3 radios are required. Normally, mercury batteries (\$8.00 ea.) are used and discarded. The NICAD (\$43.80 ea.) battery can be charged over and over. Other small chargers can be purchased from Motorola for this use for about \$35.00 each. By using this converter charger system a savings can be made in battery expense.

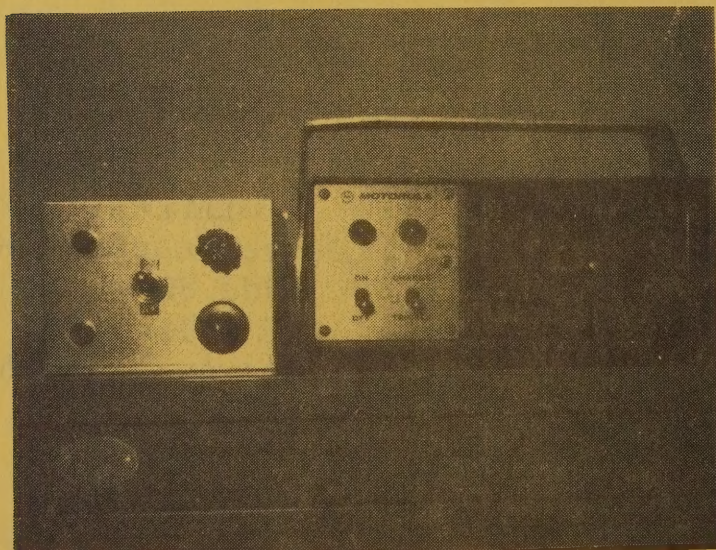
The converter is housed in a 3" x 4" BUD box. An ON/OFF switch, a power on light, and a fuse are mounted on the BUD box. A step-down transformer and diode are used for the conversion from 110 to 12 volts DC. The converter plugs directly into the 12 volt input plug of the charger. No modifications are necessary in the charger. This system has been used in the field with success and is recommended to anyone having a charger he wishes to convert to dual use. The total price of the converter parts is less than \$10.00 and can be purchased at any electronic supply house.

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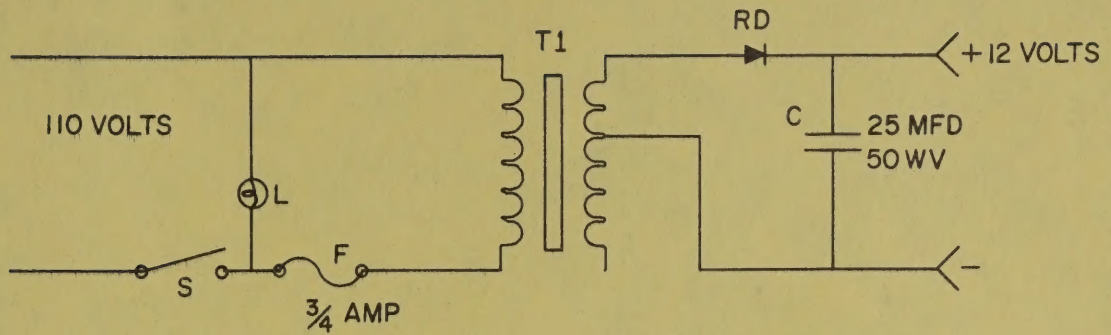
110 TO 12 VOLT CONVERTER



T1-MERIT P-4128
117 TO 24 VOLT C.T.
C 25 MFD 25 WV
F 3/4 AMP 3 AG
L 110 VOLT LAMP
RD 10D2 DIODE



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